

ABSTRACT

5 A system and method for processing and generating control signals for the real-time
controlling of signal processors, synthesizers, musical instruments, MIDI proces-
sors, lighting, video, and special effects in performance, recording, and composition
environments. The invention provides for the use of incoming control signals to
control events and parameters of low-frequency oscillators and transient generators.
The invention also provides for the processing of control signal values such as ad-
dition, multiplication, mirroring, offset, etc., individually or in combination with
10 one another. The invention further provides for the conversion of one type of con-
trol signal to another type of control signal, for example conversion of MIDI "note-
on message" parameters such as note number and velocity into MIDI "continuous
controller messages" etc. The invention is particularly directed towards, but not
limited to, the processing and generation of control signals in the form of MIDI
15 messages.